



SHIELDING MATERIALS: TM-192  
COMPRESSED & SHREDDED AUTOMOBILES, ETC. 1100.0

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Shredded automobiles have a bulk density of 70-80 lb/cu ft., according to Mr. Lawrence Kaplan of the M.S. Kaplan Company (69 W. Washington St., Chicago). They contain all kinds of impurities.

Heavy steel punchings have a bulk density of 250 lb/cu ft. ( $\rho = 4. \text{ g/cm}^3$ ). Punchings cannot be used as aggregate in concrete unless they are degreased. Kaplan quoted a price of \$50/ton for punchings. I believe this price is out of line since USS is willing to sell rejected steel ingots for \$40/ton.

The McLouth Steel Company is also interested in selling rejected continuous cast plate. Most of their reject is 40 inch wide, 10 inch thick, and 20-40 feet long. Mr. Sheppard will call us back with prices.

A note of V. J. Romano (10/5/67) describes different types of compressed steel scrap bales (50-300 lb/cu ft.). As soon as we can get a mechanical engineer, we will try to estimate the cost of these materials. In 1967 the costs



varied between 1 and 3¢/lb, hence they seem to be from 50% cheaper to 20% more expensive than choice reject steel plate at 1969 prices.